

CLAIMS

1. A method of imparting flame retardant properties to a polyurethane composition comprising adding an effective amount of
5 ethylenebistetrabromophthalimide and/or tris(2,3-dibromopropyl)isocyanurate as a fire retardant during manufacture of the polyurethane composition.
2. The method of claim 1 wherein the polyurethane composition is a polyurethane foam, polyurethane rubber, polyurethane coating, polyurethane
10 sealant or polyurethane adhesive.
3. The method of claim 2 wherein the polyurethane adhesive is a reactive hot melt adhesive.
4. A polyurethane adhesive comprising an isocyanate, a polyol and a
15 fire retardant selected from the group consisting of ethylenebistetrabromophthalimide, tris(2,3-dibromopropyl)isocyanurate and mixtures thereof.
5. The adhesive of claim 4 wherein the isocyanate is a diisocyanate or a
20 polyisocyanate.
6. The adhesive of claim 5 wherein the fire retardant further comprises a chlorinated paraffin, an aryl phosphate ester and/or antimony trioxide.
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8. The adhesive of claim 4 wherein the polyol is a polyether polyol, a polyester polyol or a mixture thereof.

8. The adhesive of claim 7 further comprising an acrylic copolymer.
9. The adhesive composition of claim 8 prepared by reacting from about
5 5 to about 50 parts by weight of an isocyanate, from about 1 to about 70
parts by weight of a polyol, about 0 to about 40 parts by weight of an acrylic
resin and from about 1 to about 50 parts by weight of
ethylenebistetrabromophthalimide and/or tris(2,3-
dibromopropyl)isocyanurate.
- 10 10. The composition of claim 9 further comprising up to about 10 parts by
weight of a chlorinated paraffin and/or up to about 10 parts by weight of an
aryl phosphate ester, as further a flame retardant component.
- 15 11. A method for bonding articles together which comprises applying a
reactive hot melt adhesive composition according to claim 1 in a liquid form to
a first article, bringing a second article in contact with the composition applied
to the first article, and subjecting the applied composition to conditions which
will allow the composition to cool and cure to a composition having an
20 irreversible solid form, said conditions comprising moisture.
12. An article of manufacture comprising the adhesive of claim 4.
13. The article of claim 12 which is an entry door.

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